

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number:
WO 2004/031102 A1

(51) International Patent Classification⁷: C04B 38/00,
C08F 285/00, G02B 6/12

(21) International Application Number: PCT/EP2003/009717

(22) International Filing Date:
2 September 2003 (02.09.2003)

(25) Filing Language: German

(26) Publication Language: German

(30) Priority Data:
102 45 848.0 30 September 2002 (30.09.2002) DE

(71) Applicant (*for all designated States except US*): MERCK
PATENT GMBH [DE/DE]; Frankfurter Strasse 250,
64293 Darmstadt (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): WINKLER, Holger
[DE/DE]; Römerstrasse 63a, 64291 Darmstadt (DE).
HELLMANN, Götz [DE/DE]; Huxelrebenweg 72, 55129
Mainz (DE). RUHL, Tilmann [DE/DE]; Mozartstrasse
10, 64347 Griesheim (DE). SPAHN, Peter [DE/DE];
Spessartstrasse 75, 63457 Hanau (DE).

(74) Common Representative: MERCK PATENT GMBH;
Frankfurter Strasse 250, 64293 Darmstadt (DE).

(81) Designated states (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated states (*regional*): ARIPO Patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eura-
sian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European Patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

*For two-letter codes and other abbreviations, refer to the
"Guidance Notes on Codes and Abbreviations" appearing at the
beginning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR THE PRODUCTION OF INVERSE OPAL-LIKE STRUCTURES

(57) Abstract: The invention relates to the use of core/shell particles whose shell forms a matrix and whose core is essentially solid and has an essentially monodisperse size distribution as template for the production of inverse opal structures, and to a process for the production of inverse opal-like structures using core/shell particles of this type.